

**CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT**

**SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986  
(Proposition 65)**

**NOTICE TO INTERESTED PARTIES  
July 27, 2001**

**REFORMATTING OF THE LIST OF CHEMICALS  
KNOWN TO THE STATE OF CALIFORNIA  
TO CAUSE REPRODUCTIVE TOXICITY**

The Office of Environmental Health Hazard Assessment (OEHHA) of the California Environmental Protection Agency is the lead agency for the implementation of Proposition 65. Proposition 65 requires publication, at least annually, of a list of chemicals known to the state to cause cancer or reproductive toxicity. OEHHA, as lead agency for Proposition 65, administers the publication of the list. While not required by statute, the endpoint or endpoints serving as the basis for a finding that a chemical is known to cause reproductive toxicity are indicated on the Proposition 65 list. This is currently done through the publication of three lists of chemicals that cause: 1) developmental toxicity; 2) female reproductive toxicity; and 3) male reproductive toxicity. Formally placing a chemical on one or more of these lists identifies the chemical as known to the state to cause reproductive toxicity.

The original Proposition 65 list was comprised of a list of carcinogens and a single list of chemicals that cause reproductive toxicity. The endpoint on which the reproductive toxicity listing was based was not provided. To provide this information, since October 1989 the list of chemicals causing reproductive toxicity has been published as the three lists of chemicals causing developmental, male reproductive and female reproductive toxicity. To provide a more streamlined list, OEHHA proposes instead that the list of chemicals known to the state to cause reproductive toxicity be reformatted to a single list, ordered alphabetically by chemical, with the basis for listing each chemical clearly noted. The same information included in the current list can be more easily obtained in a single list. While for some time the public has been used to seeing the Proposition 65 list published in the current format, OEHHA can see no significant disadvantage to the reformatting proposed. A more readily understood format is in line with OEHHA's initiatives to clarify procedures and provide clear and transparent information to the public on Proposition 65 matters. A complete, updated chemical list was last published in the *California Regulatory Notice Register* on June 22, 2001 and is available at OEHHA's Web site ([www.oehha.ca.gov](http://www.oehha.ca.gov)). The current list, organized according to the proposed format, is available as an attachment to this notice and also on OEHHA's Web site.

The main advantage of the reformatting proposed is that in order to find out whether a chemical is on the list of chemicals known to the state to cause reproductive toxicity, only

one rather than three lists need be checked. Also, in instances where a chemical is listed on the basis of multiple endpoints but the dates on which the endpoints were identified differs, it will remove or reduce the possibility of mistaking the date of listing, which governs the dates on which warnings must be provided and discharges to sources of drinking water prohibited. Finally, in cases where a chemical that was listed on the basis of multiple endpoints remains on the Proposition 65 list although one or more endpoints are deleted, there is less opportunity for mistakenly identifying the chemical as no longer being on the list.

Reformatting of the list is an administrative matter not subject to the Administrative Procedure Act, and can be accomplished through the submission of a "for publication only" package to the Office of Administrative Law. However, because of the great interest of the public in Proposition 65, we are inviting public comment on this proposal. Any one wishing to comment on the proposed reformatting of the Proposition 65 list of chemicals known to cause reproductive toxicity may do so orally at the public forum described below, or in writing by submitting written comments in triplicate, along with supporting documentation, by mail, fax or hand-delivery to:

Ms. Cynthia Oshita  
Office of Environmental Health Hazard Assessment  
Street address: 1001 I Street  
Sacramento, California 95814  
Mailing address: P.O. Box 4010  
Sacramento, California 95812-4010  
Fax No.: (916) 323-8803  
Telephone: (916) 445-6900

**In order to be considered, written submissions must be postmarked (if sent by mail) or received at OEHHA (if hand-delivered or sent by fax) by 5:00 p.m. on Monday, September 10, 2001.**

A public forum will be held on **Monday, September 10, 2001**, to provide an opportunity for interested parties to orally comment on the proposed reformatting of the list. The forum will be held immediately following the public hearing scheduled on September 10, 2001 to receive testimony on an unrelated proposed regulatory action by OEHHA which will begin at 1:00 p.m. at 1001 I Street in Sacramento, in the Coastal Hearing Room on the Second Floor (see the other public notice published elsewhere in this issue of the *California Regulatory Notice Register*.) The precise time at which the public forum will begin cannot be specified at this time, but it will be no later than 4:00 p.m. The public hearing will last until all business has been conducted or until 4:00 p.m. The public forum on the proposed reformatting of the list will begin immediately after the public hearing on the proposed regulatory action is adjourned and will last until all business has been conducted or until 5:00 p.m.

**Attachment 1**  
**Proposed Format for Proposition 65 List of**  
**Chemicals Known to Cause Reproductive Toxicity**

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STATE OF CALIFORNIA  
ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT  
SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986

CHEMICALS KNOWN TO THE STATE TO CAUSE REPRODUCTIVE TOXICITY  
JULY 27, 2001

The Safe Drinking Water and Toxic Enforcement Act of 1986 requires that the Governor revise and republish at least once per year the list of chemicals known to the State to cause reproductive toxicity. The identification number indicated in the following list is the Chemical Abstracts Service (CAS) Registry Number. No CAS number is given when several substances are presented as a single listing. The date refers to the initial appearance of the chemical on the list. For easy reference, chemicals which are shown underlined are newly added. Chemicals or endpoints shown in ~~strikeout~~ were placed on the Proposition 65 list on the date noted, and have subsequently been removed.

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CHEMICALS KNOWN TO THE STATE TO CAUSE REPRODUCTIVE TOXICITY

Chemical	Type of Reproductive Toxicity	CAS No.	Date Listed
Acetazolamide	developmental	59665	August 20, 1999
Acetohydroxamic acid	developmental	546883	April 1, 1990
Actinomycin D	developmental	50760	October 1, 1992
All-trans retinoic acid	developmental	302794	January 1, 1989
Alprazolam	developmental	28981977	July 1, 1990
Altretamine	developmental, male	645056	August 20, 1999
Amantadine hydrochloride	developmental	665667	February 27, 2001
Amikacin sulfate	developmental	39831555	July 1, 1990
Aminoglutethimide	developmental	125848	July 1, 1990
Aminoglycosides	developmental	---	October 1, 1992
Aminopterin	developmental, female	54626	July 1, 1987
Amiodarone hydrochloride	developmental, female, male	19774824	August 26, 1997
Amitraz	developmental	33089611	March 30, 1999
Amoxapine	developmental	14028445	May 15, 1998
Anabolic steroids	female, male	---	April 1, 1990
Angiotensin converting enzyme (ACE) inhibitors	developmental	---	October 1, 1992
Anisindione	developmental	117373	October 1, 1992
Arsenic (inorganic oxides)	developmental	---	May 1, 1997
Aspirin (NOTE: It is especially important not to use aspirin during the last three months of pregnancy, unless specifically directed to do so by a physician because it may cause problems	developmental, female	50782	July 1, 1990

in the unborn child or complications during delivery.)			
Atenolol	developmental	29122687	August 26, 1997
Auranofin	developmental	34031328	January 29, 1999
Azathioprine	developmental	446866	September 1, 1996
Barbiturates	developmental	---	October 1, 1992
Beclomethasone dipropionate	developmental	5534098	May 15, 1998
Benomyl	developmental, male	17804352	July 1, 1991
Benzene	developmental, male	71432	December 26, 1997
Benzphetamine hydrochloride	developmental	5411223	April 1, 1990
Benzodiazepines	developmental	---	October 1, 1992
Bischloroethyl nitrosourea (BCNU) (Carmustine)	developmental	154938	July 1, 1990
Bromacil lithium salt	developmental	53404196	May 18, 1999
Bromoxynil	developmental	1689845	October 1, 1990
Bromoxynil octanoate	developmental	1689992	May 18, 1999
Butabarbital sodium	developmental	143817	October 1, 1992
1,4-Butanediol dimethane-sulfonate (Busulfan)	developmental	55981	January 1, 1989
Cadmium	developmental, male	---	May 1, 1997
Carbamazepine	developmental	298464	January 29, 1999
Carbon disulfide	developmental, female, male	75150	July 1, 1989
Carbon monoxide	developmental	630080	July 1, 1989
Carboplatin	developmental	41575944	July 1, 1990
Chenodiol	developmental	474259	April 1, 1990
Chinomethionat (Oxythioquinox)	developmental	2439012	November 6, 1998
Chlorambucil	developmental	305033	January 1, 1989
Chlorcyclizine hydrochloride	developmental	1620219	July 1, 1987
Chlordecone (Kepone)	developmental	143500	January 1, 1989
Chlordiazepoxide	developmental	58253	January 1, 1992
Chlordiazepoxide hydrochloride	developmental	438415	January 1, 1992
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU) (Lomustine)	developmental	13010474	July 1, 1990
Chlorsulfuron	developmental, female, male	64902723	May 14, 1999
Cidofovir	developmental, female, male	113852372	January 29, 1999
Cladribine	developmental	4291638	September 1, 1996
Clarithromycin	developmental	81103119	May 1, 1997
Clobetasol propionate	developmental, female	25122467	May 15, 1998
Clomiphene citrate	developmental	50419	April 1, 1990
Clorazepate dipotassium	developmental	57109907	October 1, 1992
Cocaine	developmental, female	50362	July 1, 1989
Codeine phosphate	developmental	52288	May 15, 1998
Colchicine	developmental, male	64868	October 1, 1992
Conjugated estrogens	developmental	---	April 1, 1990
Cyanazine	developmental	21725462	April 1, 1990
Cycloate	developmental	1134232	March 19, 1999
Cyclohexanol	male	108930	November 6, 1998
Cycloheximide	developmental	66819	January 1, 1989
Cyclophosphamide (anhydrous)	developmental, female, male	50180	January 1, 1989
Cyclophosphamide (hydrated)	developmental, female, male	6055192	January 1, 1989
Cyhexatin	developmental	13121705	January 1, 1989
Cytarabine	developmental	147944	January 1, 1989

Dacarbazine	developmental	4342034	January 29, 1999
Danazol	developmental	17230885	April 1, 1990
Daunorubicin hydrochloride	developmental	23541506	July 1, 1990
2,4-D butyric acid	developmental, male	94826	June 18, 1999
o,p' -DDT	developmental, female, male	789026	May 15, 1998
p,p' -DDT	developmental, female, male	50293	May 15, 1998
2,4-DP (dichloroprop)	developmental	120365	April 27, 1999
Demeclocycline hydrochloride (internal use)	developmental	64733	January 1, 1992
Diazepam	developmental	439145	January 1, 1992
Diazoxide	developmental	364987	February 27, 2001
1,2-Dibromo-3-chloropropane (DBCP)	male	96128	February 27, 1987
Dichlorophene	developmental	97234	April 27, 1999
Dichlorphenamide	developmental	120978	February 27, 2001
Diclofop methyl	developmental	51338273	March 5, 1999
Dicumarol	developmental	66762	October 1, 1992
Diethylstilbestrol (DES)	developmental	56531	July 1, 1987
Diffunisal	developmental, female	22494424	January 29, 1999
Dihydroergotamine mesylate	developmental	6190392	May 1, 1997
Diltiazem hydrochloride	developmental	33286225	February 27, 2001
<i>m</i> -Dinitrobenzene	male	99650	July 1, 1990
<i>o</i> -Dinitrobenzene	male	528290	July 1, 1990
<i>p</i> -Dinitrobenzene	male	100254	July 1, 1990
2,4-Dinitrotoluene	male	121142	August 20, 1999
2,6-Dinitrotoluene	male	606202	August 20, 1999
Dinitrotoluene (technical grade)	female, male	---	August 20, 1999
Dinocap	developmental	39300453	April 1, 1990
Dinoseb	developmental, male	88857	January 1, 1989
Diphenylhydantoin (Phenytoin)	developmental	57410	July 1, 1987
Disodium cyanodithio- imidocarbonate	developmental	138932	March 30, 1999
Doxorubicin hydrochloride	developmental, male	23214928	January 29, 1999
Doxycycline (internal use)	developmental	564250	July 1, 1990
Doxycycline calcium (internal use)	developmental	94088854	January 1, 1992
Doxycycline hyclate (internal use)	developmental	24390145	October 1, 1991
Doxycycline monohydrate (internal use)	developmental	17086281	October 1, 1991
Endrin	developmental	72208	May 15, 1998
Epichlorohydrin	male	106898	September 1, 1996
Ergotamine tartrate	developmental	379793	April 1, 1990
Estropipate	developmental	7280377	August 26, 1997
Ethionamide	developmental	536334	August 26, 1997
Ethyl alcohol in alcoholic beverages	developmental	---	October 1, 1987
Ethyl dipropylthiocarbamate	developmental	759944	April 27, 1999
Ethylene dibromide	developmental, male	106934	May 15, 1998
Ethylene glycol monoethyl ether	developmental, male	110805	January 1, 1989
Ethylene glycol monomethyl ether	developmental, male	109864	January 1, 1989
Ethylene glycol monoethyl ether acetate	developmental, male	111159	January 1, 1993

Ethylene glycol monomethyl ether acetate	developmental, male	110496	January 1, 1993
Ethylene oxide	female	75218	February 27, 1987
Ethylene thiourea	developmental	96457	January 1, 1993
Etodolac	developmental, female	41340254	August 20, 1999
Etoposide	developmental	33419420	July 1, 1990
Etretinate	developmental	54350480	July 1, 1987
Fenoxaprop ethyl	developmental	66441234	March 26, 1999
Filgrastim	developmental	121181531	February 27, 2001
Fluazifop butyl	developmental	69806504	November 6, 1998
Flunisolide	developmental, female	3385033	May 15, 1998
Fluorouracil	developmental	51218	January 1, 1989
Fluoxymesterone	developmental	76437	April 1, 1990
Flurazepam hydrochloride	developmental	1172185	October 1, 1992
Flurbiprofen	developmental, female	5104494	August 20, 1999
Flutamide	developmental	13311847	July 1, 1990
Fluticasone propionate	developmental	80474142	May 15, 1998
Fluvalinate	developmental	69409945	November 6, 1998
Ganciclovir sodium	developmental, male	82410320	August 26, 1997
Gemfibrozil	female, male	25812300	August 20, 1999
Goserelin acetate	developmental, female, male	65807025	August 26, 1997
Halazepam	developmental	23092173	July 1, 1990
Halobetasol propionate	developmental	66852548	August 20, 1999
Haloperidol	developmental, female	52868	January 29, 1999
Halothane	developmental	151677	September 1, 1996
Heptachlor	developmental	76448	August 20, 1999
Hexachlorobenzene	developmental	118741	January 1, 1989
Hexamethylphosphoramide	male	680319	October 1, 1994
Histrelin acetate	developmental	---	May 15, 1998
Hydramethylnon	developmental, male	67485294	March 5, 1999
Hydroxyurea	developmental	127071	May 1, 1997
Idarubicin hydrochloride	developmental, male	57852570	August 20, 1999
Ifosfamide	developmental	3778732	July 1, 1990
Iodine-131	developmental	10043660	January 1, 1989
Isotretinoin	developmental	4759482	July 1, 1987
Lead	developmental, female, male	---	February 27, 1987
Leuprolide acetate	developmental, female, male	74381536	August 26, 1997
Levodopa	developmental	59927	January 29, 1999
Levonorgestrel implants	female	797637	May 15, 1998
Linuron	developmental	330552	March 19, 1999
Lithium carbonate	developmental	554132	January 1, 1991
Lithium citrate	developmental	919164	January 1, 1991
Lorazepam	developmental	846491	July 1, 1990
Lovastatin	developmental	75330755	October 1, 1992
Mebendazole	developmental	31431397	August 20, 1999
Medroxyprogesterone acetate	developmental	71589	April 1, 1990
Megestrol acetate	developmental	595335	January 1, 1991

Melphalan	developmental	148823	July 1, 1990
Menotropins	developmental	9002680	April 1, 1990
Meprobamate	developmental	57534	January 1, 1992
Mercaptopurine	developmental	6112761	July 1, 1990
Mercury and mercury compounds	developmental	---	July 1, 1990
Methacycline hydrochloride	developmental	3963959	January 1, 1991
Metham sodium	developmental	137428	May 15, 1998
Methazole	developmental	20354261	December 1, 1999
Methimazole	developmental	60560	July 1, 1990
Methotrexate	developmental	59052	January 1, 1989
Methotrexate sodium	developmental	15475566	April 1, 1990
Methyl bromide as a structural fumigant	developmental	74839	January 1, 1993
Methyl chloride	developmental	74873	March 10, 2000
Methyl mercury	developmental	---	July 1, 1987
N-Methylpyrrolidone	developmental	872504	June 15, 2001
Methyltestosterone	developmental	58184	April 1, 1990
Metiram	developmental	9006422	March 30, 1999
Midazolam hydrochloride	developmental	59467968	July 1, 1990
Minocycline hydrochloride (internal use)	developmental	13614987	January 1, 1992
Misoprostol	developmental	59122462	April 1, 1990
Mitoxantrone hydrochloride	developmental	70476823	July 1, 1990
Myclobutanil	developmental, male	88671890	April 16, 1999
Nabam	developmental	142596	March 30, 1999
Nafarelin acetate	developmental	86220420	April 1, 1990
Neomycin sulfate (internal use)	developmental	1405103	October 1, 1992
Netilmicin sulfate	developmental	56391572	July 1, 1990
Nickel carbonyl	developmental	13463393	September 1, 1996
Nicotine	developmental	54115	April 1, 1990
Nifedipine	developmental, female, male	21829254	January 29, 1999
Nimodipine	developmental	66085594	April 24, 2001
Nitrapyrin	developmental	1929824	March 30, 1999
Nitrofurantoin	male	67209	April 1, 1991
Nitrogen mustard (Mechlorethamine)	developmental	51752	January 1, 1989
Nitrogen mustard hydrochloride (Mechlorethamine hydrochloride)	developmental	55867	July 1, 1990
Norethisterone (Norethindrone)	developmental	68224	April 1, 1990
Norethisterone acetate (Norethindrone acetate)	developmental	51989	October 1, 1991
Norethisterone (Norethindrone) /Ethinyl estradiol	developmental	68224/57636	April 1, 1990
Norethisterone (Norethindrone) /Mestranol	developmental	68224/72333	April 1, 1990
Norgestrel	developmental	6533002	April 1, 1990
Oxadiazon	developmental	19666309	May 15, 1998
Oxazepam	developmental	604751	October 1, 1992
Oxydemeton methyl	female, male	301122	November 6, 1998
Oxymetholone	developmental	434071	May 1, 1997
Oxytetracycline (internal use)	developmental	79572	January 1, 1991

Oxytetracycline hydrochloride (internal use)	developmental	2058460	October 1, 1991
Paclitaxel	developmental, female, male	33069624	August 26, 1997
Paramethadione	developmental	115673	July 1, 1990
Penicillamine	developmental	52675	January 1, 1991
Pentobarbital sodium	developmental	57330	July 1, 1990
Pentostatin	developmental	53910251	September 1, 1996
Phenacemide	developmental	63989	July 1, 1990
Phenprocoumon	developmental	435972	October 1, 1992
Pimozide	developmental, female	2062784	August 20, 1999
Pipobroman	developmental	54911	July 1, 1990
Plicamycin	developmental	18378897	April 1, 1990
Polybrominated biphenyls	developmental	---	October 1, 1994
Polychlorinated biphenyls	developmental	---	January 1, 1991
Potassium dimethyldithio- carbamate	developmental	128030	March 30 1999
Pravastatin sodium	developmental	81131706	March 3, 2000
Prednisolone sodium phosphate	developmental	125020	August 20, 1999
Procarbazine hydrochloride	developmental	366701	July 1, 1990
Propargite	developmental	2312358	June 15, 1999
Propylthiouracil	developmental	51525	July 1, 1990
Pyrimethamine	developmental	58140	January 29, 1999
Quazepam	developmental	36735225	August 26, 1997
Quizalofop-ethyl	male	76578148	December 24, 1999
Resmethrin	developmental	10453868	November 6, 1998
Retinol/retinyl esters, when in daily dosages in excess of 10,000 IU, or 3,000 retinol equivalents. (NOTE: Retinol/retinyl esters are required and essential for maintenance of normal reproductive function. The recommended daily level during pregnancy is 8,000 IU.)	developmental	---	July 1, 1989
Ribavirin	developmental	36791045	April 1, 1990
	male	36791045	February 27, 2001
Rifampin	developmental, female	13292461	February 27, 2001
Secobarbital sodium	developmental	309433	October 1, 1992
Sermorelin acetate	developmental	---	August 20, 1999
Sodium dimethyldithiocarbamate	developmental	128041	March 30 1999
Sodium fluoroacetate	male	62748	November 6, 1998
Streptomycin sulfate	developmental	3810740	January 1, 1991
Streptozocin (streptozotocin)	developmental, female, male	18883664	August 20, 1999
Sulfasalazine	male	599791	January 29, 1999
Sulindac	developmental, female	38194502	January 29, 1999
Tamoxifen citrate	developmental	54965241	July 1, 1990



Temazepam	developmental	846504	April 1, 1990
Teniposide	developmental	29767202	September 1, 1996
Terbacil	developmental	5902512	May 18, 1999
Testosterone cypionate	developmental	58208	October 1, 1991
Testosterone enanthate	developmental	315377	April 1, 1990
2,3,7,8-Tetrachlorodibenzo-para-dioxin (TCDD)	developmental	1746016	April 1, 1991
Tetracycline (internal use)	developmental	60548	October 1, 1991
Tetracyclines (internal use)	developmental	---	October 1, 1992
Tetracycline hydrochloride (internal use)	developmental	64755	January 1, 1991
Thalidomide	developmental	50351	July 1, 1987
Thioguanine	developmental	154427	July 1, 1990
Thiophanate methyl	female, male	23564058	May 18, 1999
Tobacco smoke (primary)	developmental, female, male	---	April 1, 1988
Tobramycin sulfate	developmental	49842071	July 1, 1990
Toluene	developmental	108883	January 1, 1991
Triadimefon	developmental, female, male	43121433	March 30, 1999
Triazolam	developmental	28911015	April 1, 1990
Tributyltin methacrylate	developmental	2155706	December 1, 1999
Trientine hydrochloride	developmental	38260014	February 27, 2001
Triforine	developmental	26644462	June 18, 1999
		37273840	
Trilostane	developmental	13647353	April 1, 1990
Trimethadione	developmental	127480	January 1, 1991
Trimetrexate glucuronate	developmental	82952645	August 26, 1997
Uracil mustard	developmental, female, male	66751	January 1, 1992
Urethane	developmental	51796	October 1, 1994
Urofollitropin	developmental	26995915	April 1, 1990
Valproate (Valproic acid)	developmental	99661	July 1, 1987
Vinblastine sulfate	developmental	143679	July 1, 1990
Vinclozolin	developmental	50471448	May 15, 1998
Vincristine sulfate	developmental	2068782	July 1, 1990
Warfarin	developmental	81812	July 1, 1987
Zileuton	developmental, female	111406872	December 22, 2000

Date: proposed July 27, 2001